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PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

FALLON ET AL.

CASE NO.: CL1035

SERIAL NO.: 09/116,502

GROUP ART UNIT: 1652

FILED: JULY 16, 1998

EXAMINER: C. FRONDA

FOR: TRANSFORMED YEAST STRAINS AND  
THEIR USE FOR THE PRODUCTION OF  
MONOTERMINAL AND DITERMINAL  
ALIPHATIC CARBOXYLATE

dated  
10/8/01SUPPLEMENTAL AMENDMENT

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

This Supplemental Amendment is being filed pursuant to a telephone interview with the Examiner. Please amend the above-referenced application as follows:

In The Claims:

1. A method for the bioproduction of a C<sub>6</sub> to C<sub>22</sub> mono- or di-carboxylic acid comprising
  - a) contacting, under aerobic conditions, a transformed *Pichia pastoris* comprising a genetically-engineered alkane hydroxylating activity comprising
    - i) at least one copy of a foreign gene encoding cytochrome P450 monooxygenase; and, optionally,
    - ii) at least one copy of a foreign gene encoding cytochrome P450 reductase,
  - each gene operably linked to a *Pichia pastoris* Aox 1 promoter such that alkane hydroxylating activity is enhanced upon contact with at least one C<sub>6</sub> to C<sub>22</sub> straight chain hydrocarbon; and
  - b) recovering the C<sub>6</sub> to C<sub>22</sub> mono- and di-carboxylic acids.
- ~~Original~~ 2. The method of Claim 1 wherein the transformed *Pichia pastoris* is strain SW 64/65 identified as ATCC 74409; the at least one C<sub>6</sub> to C<sub>22</sub> straight chain hydrocarbon is dodecane; and the product recovered is dodecanedioic acid.
3. A transformed *Pichia pastoris* comprising
  - a) at least one copy of a foreign gene encoding cytochrome P450 monooxygenase; and, optionally,
  - b) at least one copy of a foreign gene encoding cytochrome P450 reductase,
- each gene operably linked to *Pichia pastoris* Aox1 promoter such that alkane hydroxylating activity is enhanced upon contact with at least one C<sub>6</sub> to C<sub>22</sub> straight chain hydrocarbon.